



Alluvial Placers Fine Gold Washing Plant Gravity Diamond Processing Machine 80 Tph

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: ASCEND
- Certification: CE/ISSO9001
- Model Number: GST50 GST100 GST150
- Minimum Order Quantity: 1 set
- Price: USD 3500-30000 Per set
- Packaging Details: Water and rust proof in wooden box or cotainer
- Delivery Time: 7-10 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 10 set per month



Product Specification

- Product Name: Gold Washing Equipment
- Color: Customized
- Key Word: Alluvial Gold Washing Plant
- Recovery Rate: 90%~98%
- Capacity: 10-80tph
- Motor: 45kw
- Warranty: 12 Months
- Weight: 5-20 Tons
- Highlight: **Alluvial Placers Fine Gold Washing Plant, Gravity Diamond Gold Washing Processing Plant, 80 tph Gravity Diamond Processing Machine**



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Gravity Diamond Processing Machine Alluvial Placers Fine Gold Washing Plant

Product Description

The separation principle of alluvial gold is to use gravity separation to recover the most of gold and its associated heavy minerals from the raw ore first, and then use gravity separation, flotation, amalgamation, magnetic separation, electric separation and other combined actions to separate gold and heavy minerals from each other to achieve the purpose of comprehensive recovery. The placer gold mining methods is usually divided into three operations:

(1) Washing operations

The cemented ore sand is separated by water immersion, washing and mechanical agitation, and the gravel, sand and clay are separated, and the clay and gold particles adhered on the gravel are cleaned. The ore washing operation includes three processes: crushing, screening and desliming.

(2) Rough separation

According to the characteristics of the mine can be divided into these modes: fixed sluice - shaking table process; fixed or vibrating sluice-jig machine-shaking table process; multi-stage jig machine-shaking table process; centrifugal concentrator – shaking table process.

(3) Cleaning separation

Heavy sand and mercury are mixed in a mercury mixing cylinder, heavy sand is not adsorbed by mercury and is removed, but the gold will be adsorbed into the mercury.

Features of Drum Scrubber Washing Machine

- Good washing effect for sticky clay material, sieving out different size ores.
- Various Process capacity , can be from 5 T/H to 250T/H as per request.
- Low operating cost, easy maintenance, low noise.
- The length & diameter of Gold Trommel drum , inside drum lined material, screen mesh, layer quantity of screen and Screen material can be customized.
- mobile type or stationary type Gold Trommel.
- diesel generator or electric motor for Gold Trommel.

Main Structure of Drum Scrubber Washing Machine

1. Gold Trommel Drum : For washing sticky clay from ore.
2. Inside drum lined plate: for breaking the clay and ores, wash more clean the material, can be rubber lined plate or iron steel plate welded inside drum.
3. Sieving Screen of Gold Trommel Washing Machine : for sieving different sizes ores, the screen mesh size & layer quantity & screen materials can be customized, screen material can be manganese steel or stainless steel. Mostly use manganese steel.
4. Motor: Electric Motor or diesel according to request.
5. Reducer: works together with motor and bearing for transmission drum rotating.
6. Gold Trommel Base Frame: Supporting the whole trommel scrubber.

Advantages of gold trommel equipment

1. It is a highly economically viable option adequately suitable for small to large volume processing of materials.
2. The screen features various filters for different heavy duty drums that ensure complete separation of fine materials.
3. The design has a end user flexibility that allows for screen replacements depending on mesh sizes.
4. Multiple layers of screen to enhance the sifting process.
5. It features changeable screen plates so that worn out parts can be replaced.
6. Trommel screen has high efficiency and a big capacity for different volumes of materials.
7. The screen is uniquely designed to facilitate higher capacities, provide longer screen life and avoid material clogging.

The trommel screen is equipped with water spray pipe inside drum, with feeding hopper, water pump, diesel generator, ect

It can be screened for the particle size of the initial minerals for subsequent beneficiation. It has the characteristics of compact structure, strong integrity, light weight, small-medium handling capacity, simple operation, reliable operation, easy maintenance and convenient operation.

Description of the placer gold washing plant

After finishing installation of the whole plant. Usually use excavator or payloador to feed the river sand into the hopper, then the sand go to the trommel screen. When the rotary trommel screen is rotating, big size more than 8mm sand will be screened out, small sizes less than 8mm will go to the **gold centrifugal concentrator** or vibrating gold sluice (usually we recommend concentrator, as it can achieve high recovery rate for different gold particle sizes from 40 mesh to 200 mesh). Following the concentrator is gold sluice with gold blanket, which is used to recover the remaining gold in the concentrator.

Specification

SPECIFICATIONS OF GOLD EXTRACTION EQUIPMENT FOR WASHING GOLD SEPARATOR MACHINE				
Model	GTS20	GTS50	MGT100	MGT200

Parameters				
Size /mm	6000x1600x2499	7000*2000*3000	8300*2400*4700	9800*3000*5175
Capacity	20-40	50-80 tph	100-150 tph	200-300 tph
Power	20	30 kw	50 kw	80 kw
Trommel Screen /mm	1000x2000	φ1200*3000	φ1500*3500	φ1800*4000
Sluice Box	2 set	2 sets	3 sets	4 sets
Water Supply /m ³	80m ³	120 m ³	240 m ³	370 m ³
Recovery Rate	95%	98%	98%	98%

Gold centrifugal concentrator

Gold sluice with blanket

Shaking table

After collect the gold concentrate fromo the centrifugal concentrator and gold sluice blanket, the most common way is then put it on the **shaking table** to further improve the gold grade.

Mercury Amalgamation barrel or small ball mill

The gold ore concentrate collected from the shaking table will be put in the small ball mill, or we call **mercury amalgamation barrel**. Then it can mix with the mercury and form the gold and mercury mixture.

Electric gold melting furnace

After get the mixture of gold and mercury, you can put it in the **elctric gold melting furnace** and heat it, then you can get the pure gold bar.


Package&Delivery


After-sales Service

Contact Us

ASCEND Henan Ascend Machinery Equipment Co., Ltd.

 +86 18221130967

 wilson_ascendme@163.com

 mining-crushermachine.com

Shenglong block, high tech zone, Zhengzhou, China